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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,796		11/20/2001	Michael Y. Zhang	ACSC 59931 (1987D)	1816
24201	7590	03/23/2006		EXAM	INER
FULWIDER	R PATTO	NC	BUI, VY Q		
6060 CENTER DRIVE					
10TH FLOOI	3		ART UNIT	PAPER NUMBER	
LOS ANGELES, CA 90045				3734	

DATE MAILED: 03/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/989,796	ZHANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Vy Q. Bui	3731					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state of the period for reply will be period for r	N. 8.1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) red will apply and will expire SIX (6) MONTHS fratute, cause the application to become ABANDO	e timely filed  days will be considered timely.  om the mailing date of this communication.  NED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 2	<u>/27/2006</u> .						
•—•	<u> </u>						
3) Since this application is in condition for allo	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•						
4)  Claim(s) 26 and 28-37 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 26 and 28-37 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.							
Application Papers	•						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of the certified copies not received.							
•							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summ						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date</li> </ul>		al Patent Application (PTO-152)					

Application/Control Number: 09/989,796

Art Unit: 3731

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

From the Applicant's remarks (2/27/2006), it is clear that "the inner diameter of the balloon mold used to blow mold the balloon" is the same as "the nominal outer diameter of the balloon", and "an inflation pressure required to fill the blow-molded inflated volume at an ambient temperature" is the same as "the nominal pressure of the balloon (the pressure inside the balloon associated with the nominal outer diameter of the balloon). Clarification is required.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26, 28-29, 34-35 are rejected under 35 U.S.C. 102(b) as being anticipated by WANG et al. (5,556,383).

WANG (examples 1-2, table 1, for example) discloses balloons (examples 1-2, lines 1-2 of table 1) having a radial distention % or shrinkage % less than 10% as measured by a

difference from the inflated outer diameters of the balloons/nominal diameters (about 2.25mm in example 1: col. 5, lines 50-56, and about 3mm in example 2: col. 6, lines 26-36) and the inner diameters of the molds/nominal outside diameters of the balloons at an ambient temperature (about 2.25mm in example 1: col. 5, lines 50-56, and about 3mm in example 2: col. 6, lines 26-36) when inflated to a nominal pressure (88 psi/6 atm).

In addition, Wang-'383 (col. 1, lines 41-45) discloses "non-compliant" balloons which are least elastic having a diameter change in a range of 2%-7% as the balloons are pressurized from a pressure from 6atm to 12 atm. It is clear that the well-known inelastic balloons are very dimensional stable and meet the requirement of a balloon as recited in the claims.

For a product claim, a claimed product cannot be patentable over another product having the same structural limitations even though the two products are created by two different processes. It is noted that there is no substantial difference in structural limitation between the claimed balloon and the balloon disclosed by Wang-'383.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30-33, 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over WANG et al. (5,556,383).

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As to claims 30-32, WANG (example 1 and table 1) discloses a polymeric balloon having substantial all structural limitation as recited in the claims, except for the axial growth is less than 6% or 10%. However, WANG discloses radial shrinkage less than 6% in a radial direction and the material of the balloon is substantially homogenous, therefore, it would be reasonable to expect the growth percentage in a same order to the radial shrinkage or less than 6% or 10%.

As to claim 33, WANG (example 1 and table 1) discloses a polymeric balloon of pebax (col. 5, lines 51) having substantial all structural limitation as recited in the claims, except for the balloon is made at least in part of a polyurethane. However, pebax and polyurethane are well-known low compliant polymeric materials suitable for manufacturing balloon in a balloon catheter. It would have been obvious to one of ordinary skill in the art at the time of the invention to have polyurethane as a material to make WANG balloon, as this configuration would guarantee a low compliant balloon with low shrinkage percentage.

As to claims 36-37, WANG (example 1 and table 1) discloses a polymeric balloon of pebax (col. 5, lines 51) having substantial all structural limitation as recited in the claims, except for the balloon thickness in the range as claimed. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to make WANG balloon having a thickness in the range as recited in the claims for other applications requiring balloons with bigger sizes.

#### Response to Amendment

The amendment filed on 5/9/2005 under 37 CFR 1.131 is ineffective to overcome the WANG et al. (5,556,383) reference as indicated in the rejection presented above.

### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vy Q. Bui whose telephone number is 571-272-4692. The examiner can normally be reached on Monday-Tuesday and Thursday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Vy Q. Bui Primary Examiner Art Unit 3731